



Docket No.: 21581-00298-US1
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Koji Yonehara, et al.

Application No.: 10/621,399

Confirmation No.:

Filed: July 18, 2003

Art Unit: N/A

For: LIQUID PHASE OXYGENATION
REACTION USING TUNGSTEN SPECIES

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed within three months of the U.S. filing date (37 CFR 1.97(b)(1)).

A copy of each reference on PTO/SB/08 is attached.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this

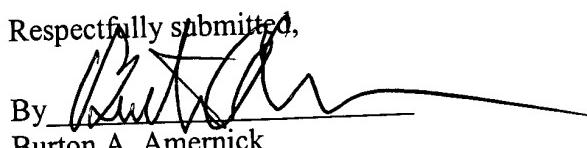
Application No.: 10/621,399

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application by this firm) to our Deposit Account No. 22-0185, under Order No. 21581-00298-US1. A duplicate copy of this paper is enclosed.

Dated: October 20, 2003

Respectfully submitted,

By 
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PTO/SB/21 (05-03)

Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

TRANSMITTAL FORM		Application Number	10/621,399
(to be used for all correspondence after initial filing)		Filing Date	July 18, 2003
		First Named Inventor	Koji Yonehara
		Art Unit	N/A
		Examiner Name	Not Yet Assigned
Total Number of Pages in This Submission		Attorney Docket Number	21581-00298-US1

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): IDS by Applicant References
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	CONNOLLY BOVE LODGE & HUTZ LLP Burton A. Amernick - 24,852
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Substitute for form 1449A/B/PTO				Complete if Known	
				Application Number	10/621,399
				Filing Date	July 18, 2003
				First Named Inventor	Koji Yonehara
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	21581-00298-US1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
AA	US-2,870,171		01-20-1959	Gable	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			
BA	EP-0109273-A1		05-23-1984	Venturello et al.	
BB	WO-93/00338		01-07-1993	Brown et al.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
CA	T. YAMAGUCHI, ET AL. "Isomerization and Disproportionation of Olefins over Tungsten Oxides Supported on Various Oxides", Journal of Catalysis 65, 442-447 (1980)				
CB	L. L. MURRELL, ET AL., "Supported Transition Metal Oxides as Acid Cracking Catalysts: Periodic Trends and Their Relationship to Activity and Selectivity", Journal of Catalysis 107, 463-470 (1987)				
CC	OSTROMECKI ET AL., "The Influence of metal oxide additives on the molecular structures of a surface tungsten oxide species on alumina: I. Ambient conditions", Journal of Molecular Catalysis A: Chemical 132 (1998) p. 43-57.				
CD	E. BRIOT ET AL., "Aqueous acidic hydrogen peroxide as an efficient medium for tungsten insertion into MCM-41 mesoporous molecular sieves with high metal dispersion", Journal of Materials Chemistry, 2000, 10, p. 953-958.				
CE	T. SAKAMOTO ET AL., "Selective epoxidation of olefins by hydrogen peroxide in water using a polyoxometalate catalyst supported on chemically modified hydrophobic mesoporous silica gel", Tetrahedron Letters 41 (2000) p. 10009-10012				
CF	Y. WATANABE ET AL., "Epoxidation of alkenes catalyzed by heteropolyoxometalate as pillars in layered double hydroxides", Journal of Molecular Catalysis A: Chemical 145 (1999) 281-289.				
CG	R. JIN ET AL., "Selective Oxidation of Cyclopentene to Glutaraldehyde by H ₂ O ₂ over the WO ₃ /SiO ₂ Catalyst, Journal of Catalysis 203, p. 75-81 (2001)				
CH	Z. ZHANG ET AL., "Synthesis, characterization, and catalytic testing of W-MCM-41 mesoporous molecular sieves", Applied Catalysis A: General 179 (1999) 11-19.				
CI	R. NEUMANN ET AL., "Metal Oxide (TiO ₂ , MoO ₃ , WO ₃) Substituted Silicate Xerogels as Catalysts for the Oxidation of Hydrocarbons with Hydrogen Peroxide", Journal of Catalysis 166, 206-217 (1997) Article No. CA971479.				

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